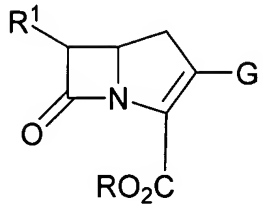
Amendments to the Claims

1. (Original) A carbapenem compound represented by the following formula [1],



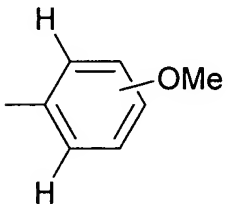
[1]

wherein R^1 is C_1-C_3 alkyl group or C_1-C_3 alkyl group substituted by hydroxy group,

R is hydrogen atom or a group which reproduces carboxyl group by hydrolysis in vivo, and

G is a group represented by

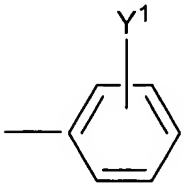
the formula G1:



[G1]

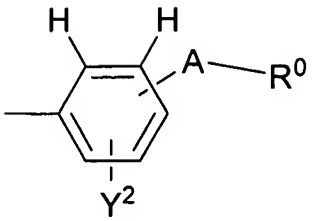
,

the formula G2:



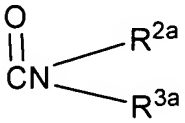
[G2]

wherein Y^1 is C_1-C_4 alkyl, C_2-C_4 alkoxy, $-(CH_2)_{ma}-O-CH_3$ (in which ma is an integer of 1~3), $-O-(CH_2)_{ma}-O-(CH_2)_{mb}-CH_3$ (in which ma is the same as defined above, mb is an integer of 0~3), trifluoromethoxy, halogen atom, cyano or $-SO_2NR^2R^3$ (in which R^2 and R^3 are independently hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, or optionally substituted heteroarylalkyl, or R^2 and R^3 may be taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted.), or the formula G3:



[G3]

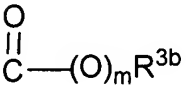
wherein A is $-(CH_2)_r-$(in which r is an integer of 1~3), $-(CH_2)_s-O-(CH_2)_t-$(in which s and t are independently is an integer of 0~3), $-O-(CH_2)_r-O-(CH_2)_s-$(in which r and s are the same as defined above), $-(CH_2)_s-NR^a-(CH_2)_t-$(in which, s and t are the same as defined above, R^a is hydrogen atom, protective group of amino group or optionally substituted C_1-C_6 alkyl), R^0 is hydrogen atom, the formula [2]:



[2]

wherein R^{2a} and R^{3a} are independently (i) hydrogen atom, (ii) optionally substituted C_1-C_6 alkyl, (iii) optionally substituted C_3-C_7 cycloalkyl, (iv) optionally substituted aryl, (v) optionally substituted heteroaryl, (vi) optionally substituted aralkyl, (vii) optionally substituted heteroarylalkyl, or (viii) an optionally substituted 3 to 7 membered hetero ring, or R^{2a} and R^{3a} are taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted or

the formula [3]:



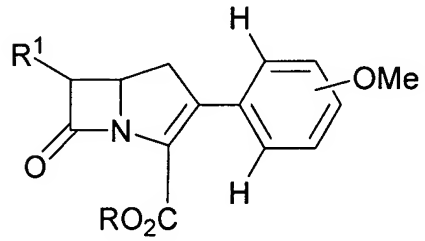
[3]

wherein m is an integer of 0 or 1, R^{3b} is hydrogen atom, optionally substituted C_1-C_6 alkyl, optionally substituted C_3-C_7 cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, optionally substituted heteroarylalkyl, or an optionally substituted 3 to 7 membered hetero ring, and when m is 1, R^{3b} may further mean a group which reproduces carbonyl group by hydrolysis in vivo, provided that when t is 0 and m is 1, R^{3b} is other group than hydrogen atom, and Y^2 is C_1-C_4 alkyl, C_1-C_4 alkoxy, halogen atom, cyano or $-NR^4R^5$ (in which R^4 and R^5 are independently

(i) hydrogen atom, (ii) a protective group of amino group, (iii) optionally substituted C_1-C_6 alkyl, (iv) optionally substituted C_3-C_7 cycloalkyl, (v) formyl, (vi) C_2-C_7

alkylcarbonyl, (vii) optionally substituted aryl, (viii) optionally substituted heteroaryl, (ix) optionally substituted aralkyl, (x) optionally substituted heteroarylalkyl, or (xi) an optionally substituted 3 to 7 membered hetero ring, or R^4 and R^5 are taken together with the nitrogen atom to form pyrrolidine, piperidine or azepam),
or a pharmaceutically acceptable salt thereof.

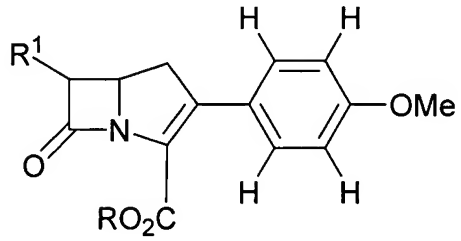
2. (Currently amended) A carbapenem compound or a pharmaceutically acceptable salt thereof represented by the following formula [1-a] wherein G is G1 in the above formula [1]:



[1-a]

wherein R^1 and R are the same as ~~definedin~~ defined in claim 1,
or a pharmaceutically acceptable salt thereof.

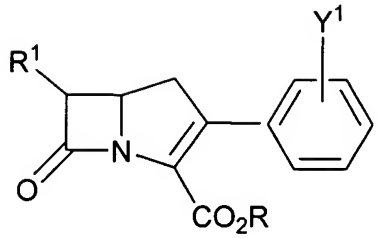
3. (Original) A carbapenem compound represented by the following formula [1-b]:



[1-b]

wherein R^1 and R are the same as defined in claim 1,
or a pharmaceutically acceptable salt thereof.

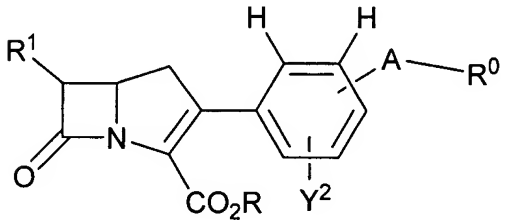
4. (Original) A carbapenem compound represented by the following formula [1-c]:



[1-c]

wherein R^1, R and Y^1 are the same as defined in claim 1,
or a pharmaceutically acceptable salt thereof.

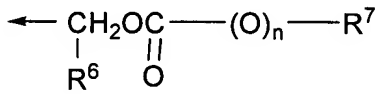
5. (Original) A carbapenem compound or a pharmaceutically acceptable salt thereof represented by the following formula [1-d]:



[1-d]

wherein R^1, R, A, R^0 and Y^2 are the same as defined in claim 1,
or a pharmaceutically acceptable salt thereof.

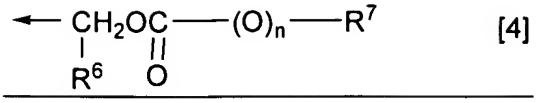
6. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein a group which reproduces carboxyl group by hydrolysis in vivo is a group of the formula [4]:



[4]

wherein R^6 is hydrogen atom or C_1-C_6 alkyl, R^7 is optionally substituted C_1-C_{10} alkyl, or optionally substituted C_3-C_{10} ~~cycloalky, and n is~~ cycloalkyl, and n is an integer of 0 or 1.

7. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is a group of the formula ~~[4] claimed in claim 4~~ [4]:



[4]

wherein R^6 is hydrogen atom or C_1-C_6 alkyl, R^7 is optionally substituted C_1-C_{10} alkyl, or optionally substituted C_3-C_{10} cycloalkyl, and n is an integer of 0 or 1.

8. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 7~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R^1 is 1-hydroxyethyl.

9. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is pivaloyloxymethyl, acetyloxymethyl, acetyloxy-1-ethyl, isopropyloxycarbonyloxy-1-ethyl or cyclohexyloxycarbonyloxy-1-ethyl.

10. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein ~~R is~~ R is pivaloyloxymethyl.

11. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is phthalidyl or (5-methyl-2-oxo-1,3-dioxol-4-yl)methyl.

12. (Currently amended) The carbapenem compound claimed in ~~any one of claims 1 to 5~~ claim 1 or a pharmaceutically acceptable salt thereof wherein R is hydrogen atom.

13. (Currently amended) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 is C_2-C_4 alkoxy, $-(CH_2)_{ma}-O-CH_3$ (in which ma is ~~the same as defined in claim 1~~ an integer of 1-3) or $-O-(CH_2)_{ma}-O-(CH_2)_{mb}-CH_3$ (in which ma is as defined above and mb ~~are the same as defined in claim 1~~ is an integer of 0-3).

14. (Original) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 is C_1-C_4 alkyl, trifluoromethoxy, halogen atom or cyano.

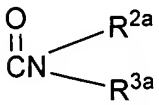
15. (Currently amended) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 is $-SO_2NR^2R^3$ (in which R^2 and R^3 ~~are the same as defined in claim 1~~ independently hydrogen atom, optionally substituted lower alkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, or optionally substituted heteroarylalkyl, or R^2 and R^3 may be taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted).

16. (Original) The carbapenem compound claimed in claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 is ethoxy, $-CH_2-O-CH_3$, $-(CH_2)_2-O-CH_3$ or $-O-(CH_2)_2-O-CH_3$.

17. (Currently amended) The carbapenem compound claimed in ~~any one of claims 4, 13 to 16~~ claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 on benzene ring is metha or para to the binding position of 7-oxo-1-azabicyclo[3.2.0]hept-2-ene.

18. (Currently amended) The carbapenem compound claimed in ~~any one of claims 4, 13 to 16~~ claim 4 or a pharmaceutically acceptable salt thereof wherein Y^1 on benzene ring is para to the binding position of 7-oxo-1-azabicyclo[3.2.0]hept-2-ene.

19. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein R^0 is a formula [2]:

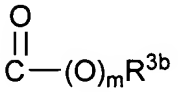


[2]

wherein R^{2a} and R^{3a} are ~~the same as defined in claim 1~~ independently (i) hydrogen atom, (ii) optionally substituted C_1-C_6 alkyl, (iii) optionally substituted C_3-C_7 cycloalkyl, (iv) optionally substituted aryl, (v) optionally substituted heteroaryl, (vi) optionally

substituted aralkyl, (vii) optionally substituted heteroarylalkyl, or (viii) an optionally substituted 3 to 7 membered hetero ring, or R^{2a} and R^{3a} are taken together with the nitrogen atom to form a 3 to 7 membered hetero ring which may be substituted.

20. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof, wherein R^0 is a formula [3]:



[3]

wherein m ~~and R^{3b} are the same as defined in claim 1~~ is an integer of 0 or 1, and R^{3b} is hydrogen atom, optionally substituted C_1-C_6 alkyl, optionally substituted C_3-C_7 cycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, optionally substituted aralkyl, optionally substituted heteroarylalkyl, or an optionally substituted 3 to 7 membered hetero ring, and when m is 1, R^{3b} may further mean a group which reproduces carbonyl group by hydrolysis in vivo, provided that when t is 0 and m is 1, R^{3b} is other group than hydrogen atom.

21. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y^2 is C_1-C_4 alkyl.

22. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y^2 is C_1-C_4 alkoxy.

23. (Original) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y^2 is halogen atom or cyano.

24. (Currently amended) The carbapenem compound claimed in claim 5 or a pharmaceutically acceptable salt thereof wherein Y^2 is $-NR^4R^5$ (in which R^4 and R^5 are ~~the same as defined in claim 1~~ independently
(i) hydrogen atom, (ii) a protective group of amino group, (iii) optionally substituted C_1-C_6 alkyl, (iv) optionally substituted C_3-C_7 cycloalkyl, (v) formyl, (vi) C_2-C_7 alkylcarbonyl, (vii) optionally substituted aryl, (viii) optionally substituted heteroaryl,

(ix) optionally substituted aralkyl, (x) optionally substituted heteroarylalkyl, or (xi) an optionally substituted 3 to 7 membered hetero ring, or R^4 and R^5 are taken together with the nitrogen atom to form pyrrolidine, piperidine or azepam).

25. (Currently amended) A medicament containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

26. (Currently amended) An antibacterial agent containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

27. (Currently amended) An oral medicament containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.

28. (Currently amended) An oral antibacterial agent containing a carbapenem compound claimed in ~~any one of claims 1 to 24~~ claim 1 or a pharmaceutically acceptable salt thereof as an active ingredient.